AELITE centre

Owner's manual

AELITE centre

((AE))

ACOUSTIC ENERGY

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Introduction

Congratulations on choosing the Acoustic Energy AELITE Centre, a powerful three-way centre channel dialogue loudspeaker which features metal diaphragm technology and is capable of outstanding performance.
Please take a few moments to read this manual. The advice it contains will enable you to get the very best performance out of your Acoustic Energy loudspeaker.

The AELITE Centre utilises metal cone mid and bass drive unit technology, proven in the AE Reference series. The rigid anodised alloy cone ensures pure piston action and also acts as a heat sink for the bonded voice coil. These features provide exceptional clarity, transparency, dynamics and power handling. The units are housed within vented die-cast chassis reducing stray magnetic flux to a minimum and increasing power handling.

The tweeter - or treble driver - is a high-quality neodymium unit with a silk fabric dome integrating smoothly with the rest of the system.

All drive units are fully magnetically shielded so that the speaker can be used in close proximity to a TV screen or monitor for AV applications.

The Acoustic Energy AELITE Centre loudspeaker uses quality OFC internal wiring, which enhances detail and transparency.

Positioning

Position the AELITE Centre either immediately above or below your screen, whichever places the speaker nearest ear level when listening. Line the front of the AELITE Centre approximately in line with the front left + right speakers.

When fine-tuning, adjust the levels of the left, centre and right speakers to give a balanced sound as images pan across the screen.

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Connection

Check that your amplifier is switched off before installing your loudspeaker. Failure to do so may result in speaker or amplifier damage. The diagram illustrates one loudspeaker only.

Conventional
Normal passive wiring requires shorting links to be in place between the treble/mid and bass sections. The positive (ribbed) cable from the amplifier positive (or red) terminal should connect with the positive (red) terminal on the loudspeaker. Similarly the negative (smooth) cable should connect the amplifier negative terminal (black) to the negative terminal (black) on the loudspeaker.

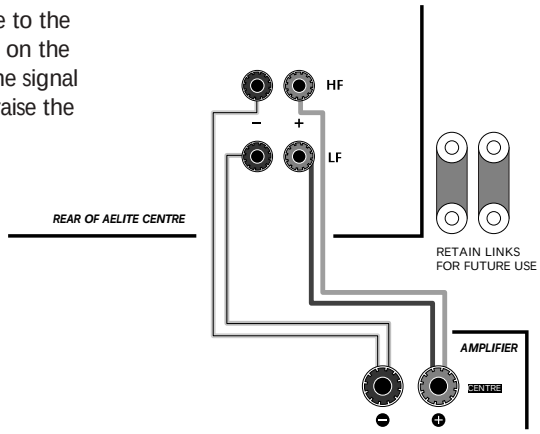
Bi-wiring
Bi-wiring separates the bass and treble ground paths in the loudspeaker and offer sound quality advantages. An extra set of cables is required. Note that the shorting links are removed between the treble/mid and bass sections and should be stored for later use if conventional, passive driving is required.

Two pairs of cables are connected to the amplifier terminals. One cable of each pair should connect to the treble/mid section and one to the bass section. The positive (ribbed) cables from the amplifier positive (or red) terminal should connect with the positive (red) terminals on the loudspeaker. Similarly the negative (smooth) cables in each pair should connect the amplifier negative terminal (black) to the negative terminals (black) on the loudspeaker.

Bi-amping
Bi-amping adds a second amplifier to the system. One power amplifier drives the treble/mid section of both loudspeakers; a second drives the bass sections. **Note that the shorting links must be removed. Failure to do so will result in damaging the amplifiers.**

As regards the loudspeakers, wiring for bi-amping is achieved in much the same way as bi-wiring. Treble/mid amplifier positive (red) terminals should be connected via the ribbed cable to the positive (red) HF terminal on the speaker. Similarly, treble/mid amplifier negative is connected to the negative (black) HF terminal on the speaker. Repeat this process with the bass amplifier and LF terminal pair.

After wiring up
Lower the volume to the minimum, switch on the amplifier, select the signal source and then raise the volume to the listening level required.



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Specifications

HF unit	Neodymium tweeter with high dispersion diaphragm. Ferro fluid cooled and damped. Magnetically shielded. Exclusively profiled. Aluminium front plate
LF+MF units	110mm die-cast chassis. Alloy cone with 32mm coil. High-power, long-throw magnet system. Magnetically shielded.
Crossover	@ 155 Hz, 2nd order LF @ 2.9 kHz, 3rd order MF @ 2.9 kHz, 3rd order HF
Power Handling	150W max (undistorted program drive)
Frequency response ±6dB	55Hz to 23kHz
Frequency response ±3dB	70Hz to 20kHz (on monitor console)
Sensitivity	90 dB/W
Impedance	8 ohm (4 ohm minimum)
Cabinet	Real wood veneered. 15 mm MDF wall. Dual chamber, high power, low turbulence bass reflex port. 22 mm MDF front baffle.
Terminals	Gold-plated 4-way binding posts.
Weight (excl. packaging)	8.0kg
Dimensions (WxHxD)	450 x 190 x 297 mm

Warranty

Your Acoustic Energy loudspeakers are guaranteed against original defects in materials, manufacture and workmanship for 3 years from the date of purchase. Please retain all original packaging materials for possible future use. We suggest that you complete details of purchase now and keep this information in a safe place for future reference.

Under this warranty Acoustic Energy agrees to repair any defect or, at the company's discretion, replace the faulty component(s) without charge for parts or labour. This warranty does not imply any acceptance by Acoustic Energy or its agents for consequential loss or damage and specifically excludes fair wear and tear, accident, misuse or unauthorised modification.

This warranty is applicable in the United Kingdom only and does not in any way limit the customer's legal rights. Claims and enquiries under the warranty for AE products purchased outside the UK should be addressed to the local importers or distributors.

If you have reason to claim under the warranty please contact your dealer in the first instance.

Dealer's name:.....
Address:.....
.....
.....
Date of purchase:.....
Serial numbers:.....

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